

Figure 1

2/33

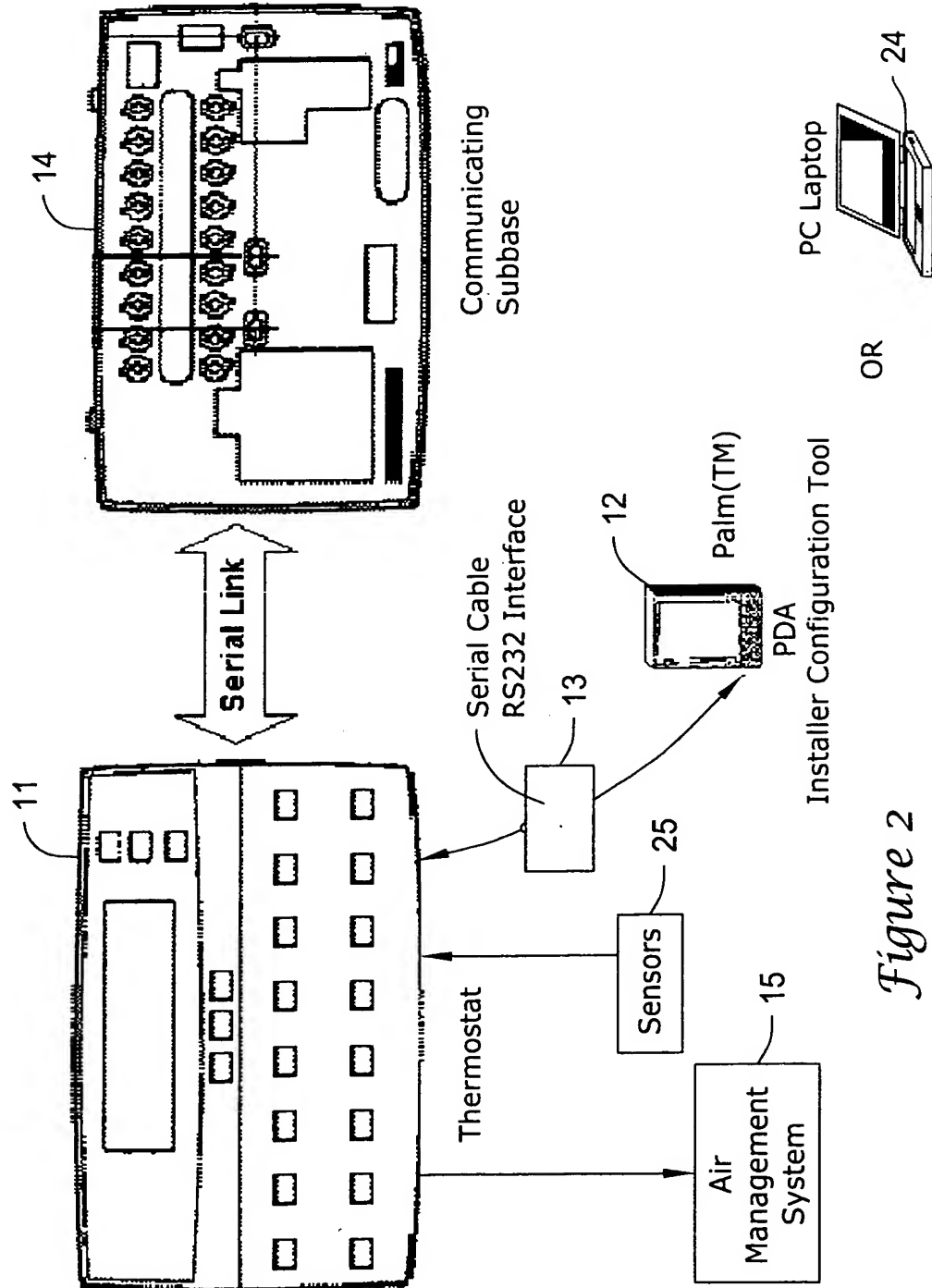


Figure 2

3/33

T7350 Configuration Tool
 Version: 0.0.d.18d

Override Monitor Data Holidays
 Set Clock Upload Config
 Temp SetPts Wildy Schedule
 New Config

▼ Select Existing Config

Figure 3A

Summary ▼ Select Setup

Config Name: New Config

Description:
 120 character description which is
 user entered.

Model: ▼ Mod1_Basic

Control: Standard Heat Pmp

Cnfg ID: 00

DownLd Back Next Save SaveAs

Figure 3B

T7350
Configuration Tool
 Version: 0.0.d.5

Temp SetPts Holidays
 Set Clock Wildy Schedule
 Monitor Data Upload Config
 New Config

▼ Select Existing Config

Figure 4A

T7350
Configuration Tool

DEFAULT
 Example1
 Example2
 Example3
 Example4
 New Config

Holidays
 Schedule
 d Config

Figure 4B

Summary

Config Name: Example2

Description:
 T7350B model supports 6 relays,
 remote space sensor, DAT, OAT

Model: ▼ T7350B (6DigOut)

Control: Standard Heat Pmp

Cnfg ID: 22

DownLd Back Next Save SaveAs

Figure 4C

Summary

Config Name: Example2

Description:
 T7350B model supports 6 relays,
 remote space sensor, DAT, OAT

Connecting to T7350

❗ Please connect PDA
 serial port to the T7350
 using serial cable.

OK Cancel

Figure 4D

4/33

T7350 Configuration Tool
 Version: 0.0.d.18d

Override Monitor Data
 Set Clock Holidays
 Temp SetPts Wkly Schedule
 Upload Config
 New Config
 ▼ Select Existing Config

Figure 5A

Summary ▼ Select Setup
Config Name: New Config
Description: 120 character description which is user entered
Model: ▼ Mod1_Basic
Control: Standard Heat Pmp
Config ID: 00
 DownLd Back Next Save SaveAs

Figure 5B

Summary
Config Name: New Config
Description:
Connecting to T7350
 Please connect PDA serial port to the T7350 using serial cable.
 OK Cancel

Figure 5C

T7350 Configuration Tool
 Version: 0.0.d.18d

Override Monitor Data
 Set Clock Holidays
 Temp SetPts Wkly Schedule
 Upload Config
 New Config
 ▼ Select Existing Config

Figure 6A

T7350 Configuration Tool
 Version: 0.0.d.5
Connecting to T7350
 Please connect PDA serial port to the T7350 using serial cable.
 OK Cancel

Figure 6B

Summary ▼ Select Setup
Config Name: XYZ
Description: Customer XYZ summary information
Model: ▼ Mod1_Basic
Control: Standard Heat Pmp
Config ID: 00
 DownLd Back Next Save SaveAs

Figure 6C

5/33

Summary
Config Name: XYZ
Description:
 A short description of customer
 XYZ configuration.....

Connecting to T7350
 Please connect PDA
 serial port to the T7350
 using serial cable.
 OK Cancel

Figure 6D

Room Temp Calibrate

Actual Value: 68.4 F

Edit Value: 68.4 F

Offset: -3 F

Calibrate Refresh Close

Figure 7B

File Connect Setup Help

Download Home XYZ
Upload

Monitor

Set Clock

Calibrate

Model:

Control:

Down Load Next Save As Save

Figure 7A

T7350 Configuration Tool
 Version: 0.0.d.18d

Override Monitor Data
 Set Clock Holidays
 Temp SetPts Weekly Schedule
 Upload Config
 New Config
 Select Existing Config

Figure 8A

T7350
Configuration Tool
 Version: 0.0.d.5

Connecting to T7350
 Please connect PDA
 serial port to the T7350
 using serial cable.
 OK Cancel

Figure 8B

Summary
Config Name: U04/09/03 11:05
Description:
 Upload: 04/09/2003, 11:05 am
 Firmw: 0.0.14, ComV: 1002
 RefPrg: 1, SubBaseID: 3
Model: T7350D,3H3C,RH
Control: Standard Heat Pmp
 CnfigID
 Back Next Save Save As Download

Figure 8C

6/33

T7350 Configuration Tool
 Version: 0.0.d.18d

▼ Select Existing Config

Figure 8D

Monitor Data

SubBaseID: T7350D.3H3C.RH
 FirmwareVersion: 0.0.19

Room Temperature: 79.2 F
 EffectiveSetPoint: 75.0 F
 RoomRH: 31 %
 Dehumidification: Off
 DischargeAirTemp: 70.3 F

Figure 8E

Summary

Config Name: Example3

Description:
 T7350C SmartStat supports 6
 Relays, remote space sensor, DAT,
 OAT, RH, Occ sensor

Model: ▼ T7350C (6DigOut+RH)

Control: Standard Heat Pmp

Cnfg ID: 23

Figure 9A

Inputs

Room Temp: Local Remote Rmt+StPt

Room Rel Humidity: Local Remote None

Occ Sensor: None Remote

Discharge Air Temp: None Remote

Outdoor Air Temp: None Remote

Figure 9B

Outputs

RuxDO:

Figure 9C

Cooling Config

Stages: 0 1 2 3

Cooling Response: Std 3 cph Fast 4 cph

☒ Enable OAT Lockout
 OAT SetPt 35 F
☒ Enable DAT Low Limit
 DAT SetPt 45 F

Figure 9D

7/33

SetPoints

	Heating	Cooling
Occupied	70	75 F
Standby	67	78 F
UnOcc	55	85 F
Occupied SetPt Stops	55	85 F

TempOverride: 3 Hrs

Back Next Download

Figure 9I

Summary

Config Name: ExampleModelID

Description:
 T7350D model supports: 6 Relays,
 remote space sensor, DAT, OAT,
 RH, Occ sensor

Model: T7350D,3H3C,RH

Control: Standard Heat Pmp

ConfigID

Back Next Save Savefs Download

Figure 9J

Weekly Schedule

Select New Schedule

Savefs Delete Modify

MON	08:00 am OCC	10:00 pm UNOCC
TUE	08:00 am OCC	10:00 pm UNOCC
WED	08:00 am OCC	10:00 pm UNOCC
THU	08:00 am OCC	10:00 pm UNOCC

Back Next Download

Figure 9G

Modify Schedule

Day: Monday

Event# -- Mode -- Time --

1	Occupied	08:00 am
2	Unoccupied	10:00 pm
3	None	12:00 am
4	None	12:00 am

CopyDayTo Sun Sat Hol

M T W T F

OK

Figure 9H

Heating Config

Stages: 0 1 2 3

Heating: Std 3cph Med 6cph

Response: Fast 9cph Fast 20cph

☒ Enable OAT Lockout
 OAT SetPt 70 F

☒ Enable DAT High Limit
 DAT SetPt 110 F

Back Next

Figure 9E

Fan

FanSwitch: On Auto

FanOperation: Conventional Electric Heat

Heat: No Extended Op Extend 90 sec

Cool: No Extended Op Extend 90 sec

Back Next

Figure 9F

9/33

Modify Holiday

▼ New Years Day
 New Years Day

Start Month: ▼ Jan

Start Day: 1

Duration: 1 Day

Spin Speed 1X 10X

OK

Figure 10K

Modify Holiday

▼ New Years Day
 Memorial Day
 Independence Day
 Labor Day
 Thanksgiving
 Christmas
 Hol 7
 Hol 8
 Hol 9
 Hol 10

Spin Speed 1X 10X

OK

Figure 10L

Day Light Saving

Start Month: ▼ Apr

Start Day: FirstSun

Stop Month: ▼ Oct

Stop Day: LastSun

Spin Speed 1X 10X

OK

Figure 10I

Holiday

▼ Select New Holiday Group

SaveAs Delete Modify

New Years Day
 Jan 1, Dur:1
 Memorial Day
 May LastMon, Dur:1
 Independence Day
 Jul 4, Dur:1
 Labor Day

Spin Speed 1X 10X

OK Download

Figure 10J

Loop Tuning

Heating Cooling

TR 7 7 F

IT 1650 1650 sec

DT 0 0 sec

Anticipator Authority: 4 F

Apply To Htg Htg&Clg

Spin Speed 1X 10X 100X

OK

Figure 10G

Recovery

Cool Heat

OAT@Min: 90 0 F

Ramp Min: 3 5 F/hr

OAT@Max: 70 40 F

Ramp Max: 6 8 F/hr

LeadTime -Cool- -Heat-

MaxRange 1.8 to 3.5 2.0 to 3.1 hr

Spin Speed 1X 10X 100X

OK LeadTimeInfo

Figure 10H

10/33

User Preferences

Units:

OS Alert Msg:

Lock Defaults:

Figure 11A

UNITS: Config Tool units preference

OS ALERT MSG: Disable unsupported Palm OS Message.

LOCK DEFAULTS: Lock default configuration files.

General Tstat Config - file name
 DEFAULT

Weekly Schedule - file name
 DEFAULT

Holiday Schedule- file name

Figure 11B

File Com Set Sched Opt

New
 Open
 Save
 Save As
 Beam
 Delete

Model:

Control:

Cnfg ID: 21

Figure 12A

New Configuration

Current: Example1

Existing Configs:
 ABCRoofTopGasHt
 Customer XYZ
 DEFAULT
 Example1
 Example2
 Example3
 Example4
 New Config

Figure 12B

Open Configuration

Current: Example1

Select Config:
 ABCRoofTopGasHt
 Customer XYZ
 DEFAULT
 Example1
 Example2
 Example3
 Example4
 New Config

Figure 12C

Save Configuration As

Existing Configs:
 ABCRoofTopGasHt
 Customer XYZ
 DEFAULT
 Example1
 Example2
 Example3
 Example4
 New Config

Figure 12D

11/33

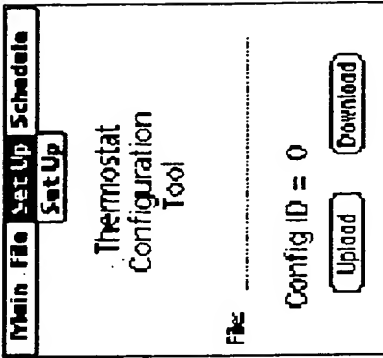


Figure 14C

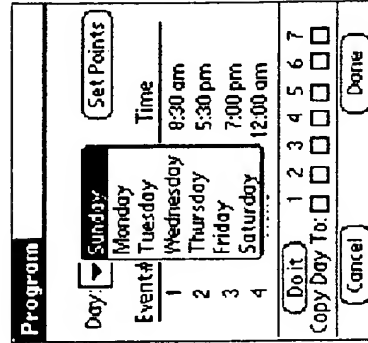


Figure 14D

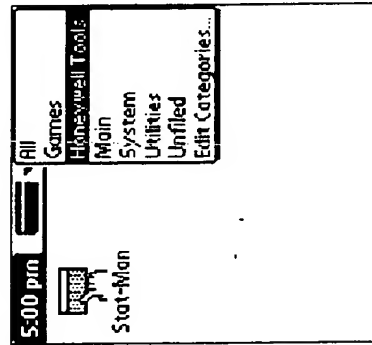


Figure 14A

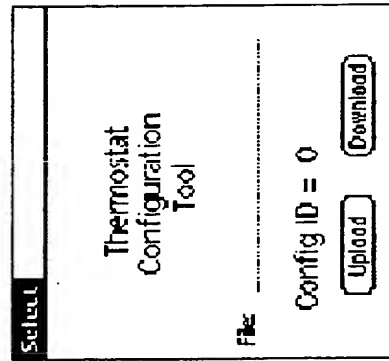


Figure 14B

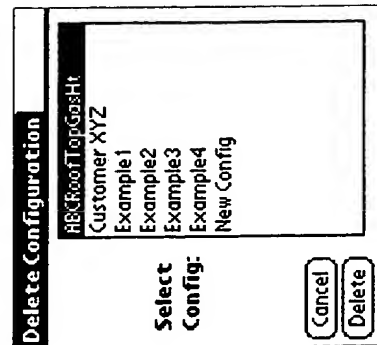


Figure 12E

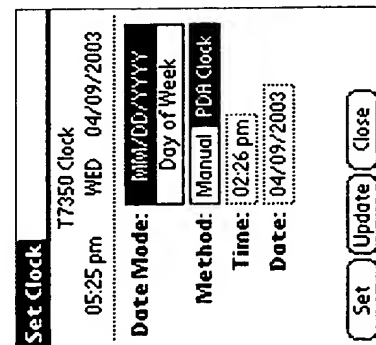


Figure 13

12/33

Installer Set Up

Temperature Units
☒ Deg F ☐ Deg C

Clock Format
☒ 12 Hr ☐ 24 Hr

Fan Behavior
☒ Continuous ☐ Intermittent

Program from Keyboard
☒ Yes ☐ No

Figure 14I

Set Up 2

Heat Stages

Cool Stages

Energize Fan For
☒ Cool Only ☐ Heat & Cool

Sensor Location
☒ Local ☐ Remote

Figure 14J

Program

Day: ☒ Sunday ☐ Set Points

Event#	Mode	Time
1	Occupied	8:30 am
2	Unocc	5:30 am

Select Event Time
 : : ☐ AM ☒ PM

Figure 14G

Set Points

	Cooling	Heating
Occupied	72	70
Standby	75	68
Unoccupied	80	60

Figure 14H

Program

Day: ☒ Sunday ☐ Set Points

Event#	Mode	Time
1	Occupied	8:30 am
2	Unocc	5:30 pm
3	Standby	7:00 pm
4	None	12:00 am

Figure 14F

Program

Day: ☒ Sunday ☐ Set Points

Event#	Mode	Time
1	None	8:30 am
2	Occupied	5:30 pm
3	Standby	2:00 am
4	Unocc	2:00 am

Figure 14F

13/33

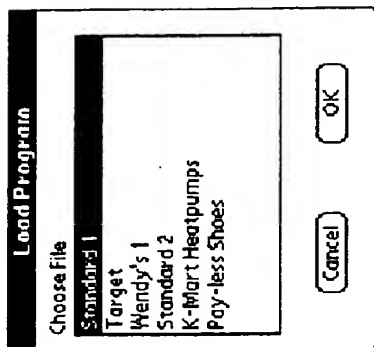


Figure 14K

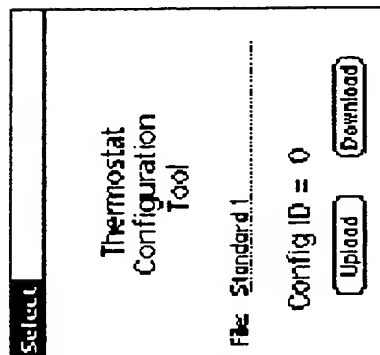


Figure 14L

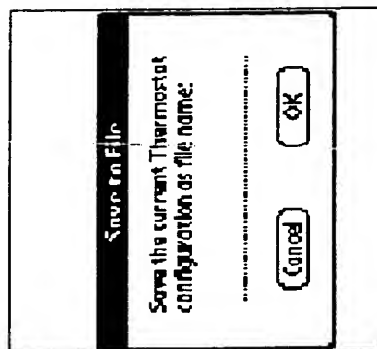


Figure 14M

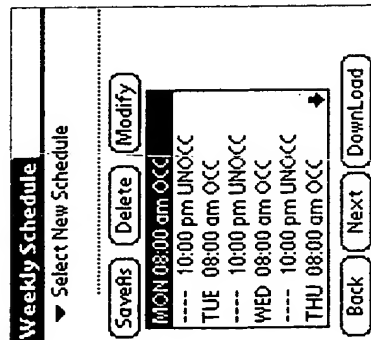


Figure 14N

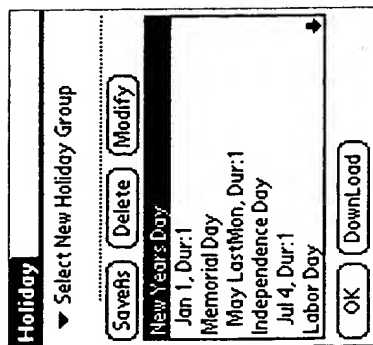


Figure 14O

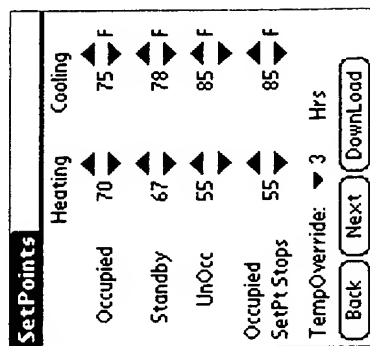


Figure 14P

14/33

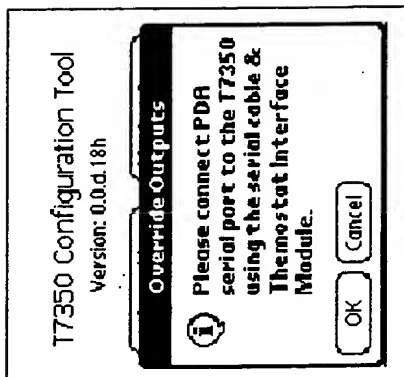


Figure 14U

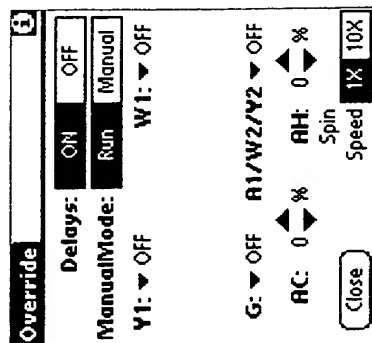


Figure 14V

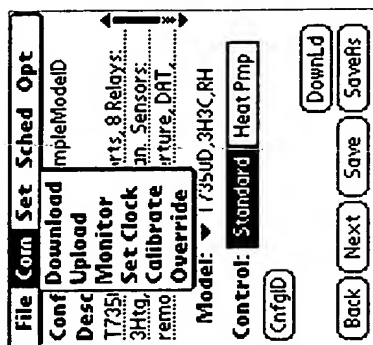


Figure 14S

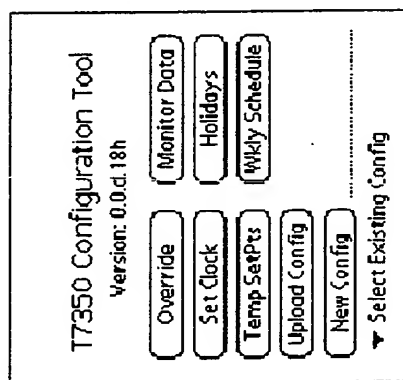


Figure 14T

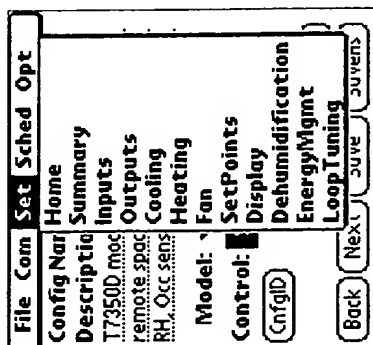


Figure 14Q

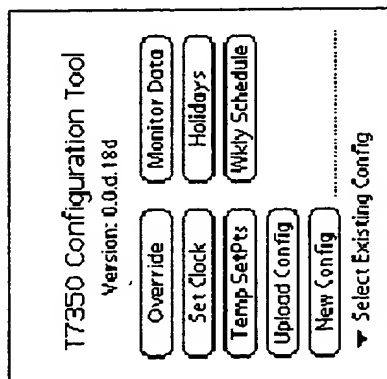


Figure 14R

15/33

Override

Delays: ☒ ON ☐ OFF

ManualMode: ☒ Run ☐ Manual

Y1: ▼ OFF W1: ▼ OFF

Y2: ▼ OFF W2: ▼ OFF

Y3: ▼ OFF W3/Y4: ▼ OFF

G: ▼ OFF aux: ▼ OFF

Figure 14W

Manual Override

Delays: ☒ ON ☐ OFF

ManualMode: ☒ Run ☐ Manual

Y1: ▼ OFF W1: ▼ OFF

Y2: ▼ OFF W2: ▼ OFF

Y3: ▼ OFF W3/Y4: ▼ OFF

G: ▼ OFF aux: ▼ OFF

Figure 14X

Override

Delays: ☒ ON ☐ OFF

ManualMode: ☒ Run ☐ Manual

Exiting Manual Mode

⚠ Manual settings will timeout in 60 seconds. Make changes to outputs and tap MANUAL button to continue.

Figure 14Y

Override

Delays: ☒ ON ☐ OFF

ManualMode: ☒ Run ☐ Manual

Y1: ▼ OFF W1: ▼ OFF

Output Delays Disabled!

⚠ The relay output min on/off time & the sequential start delays are disabled.

Figure 14Z

16/33

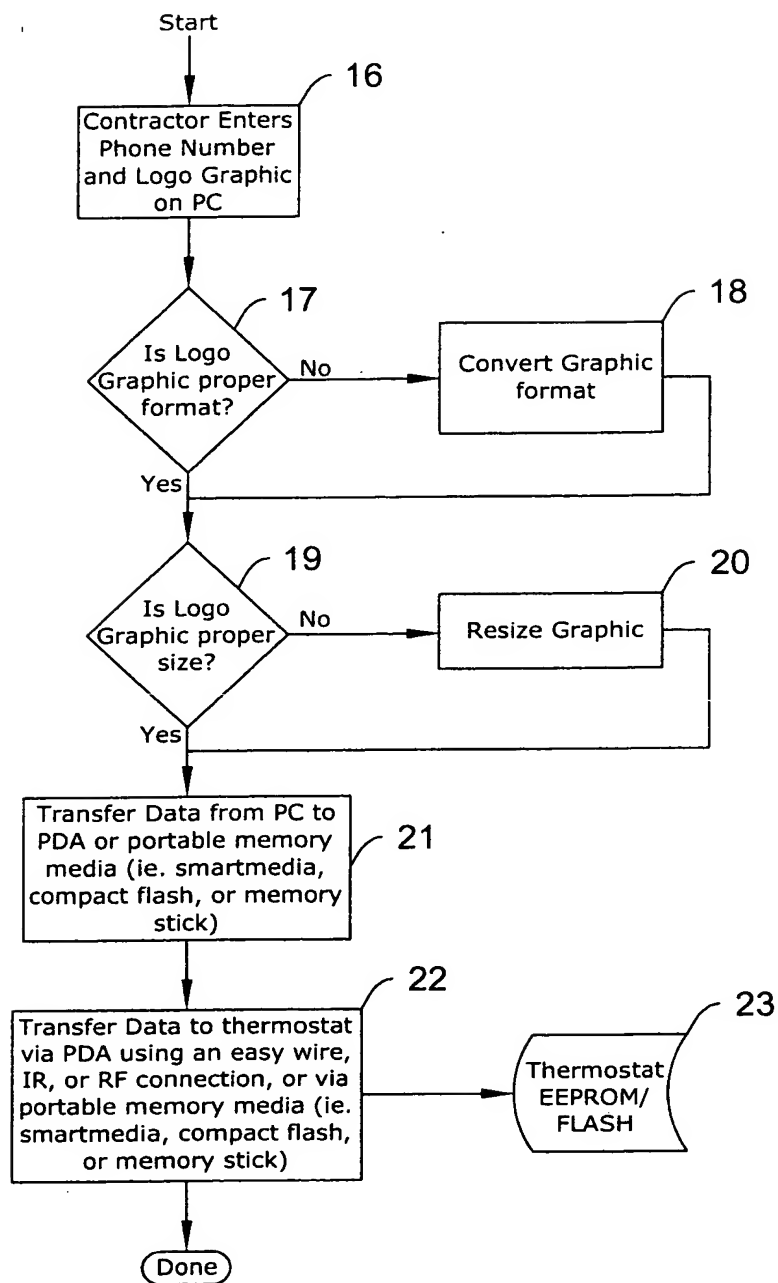


Figure 15

17/33

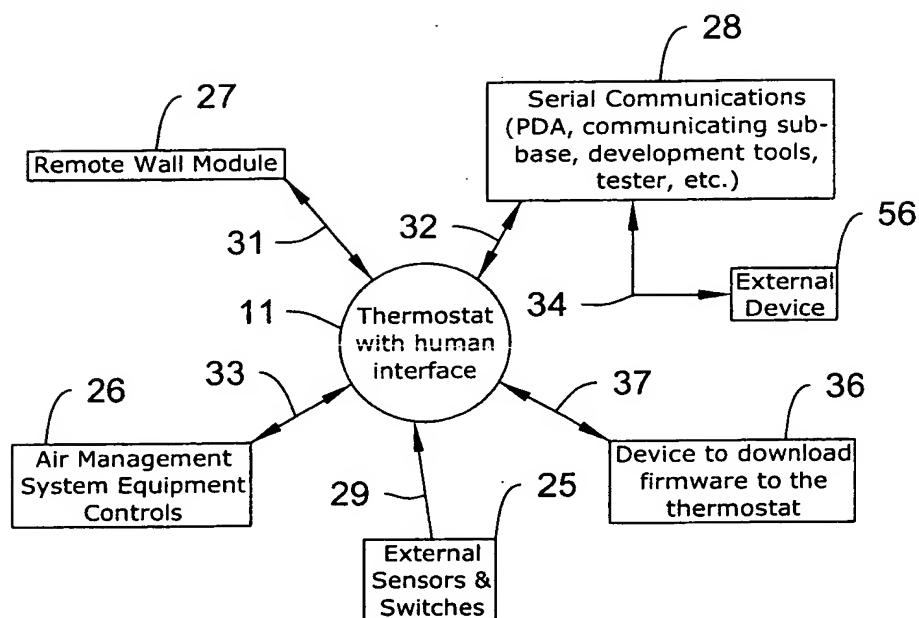


Figure 16



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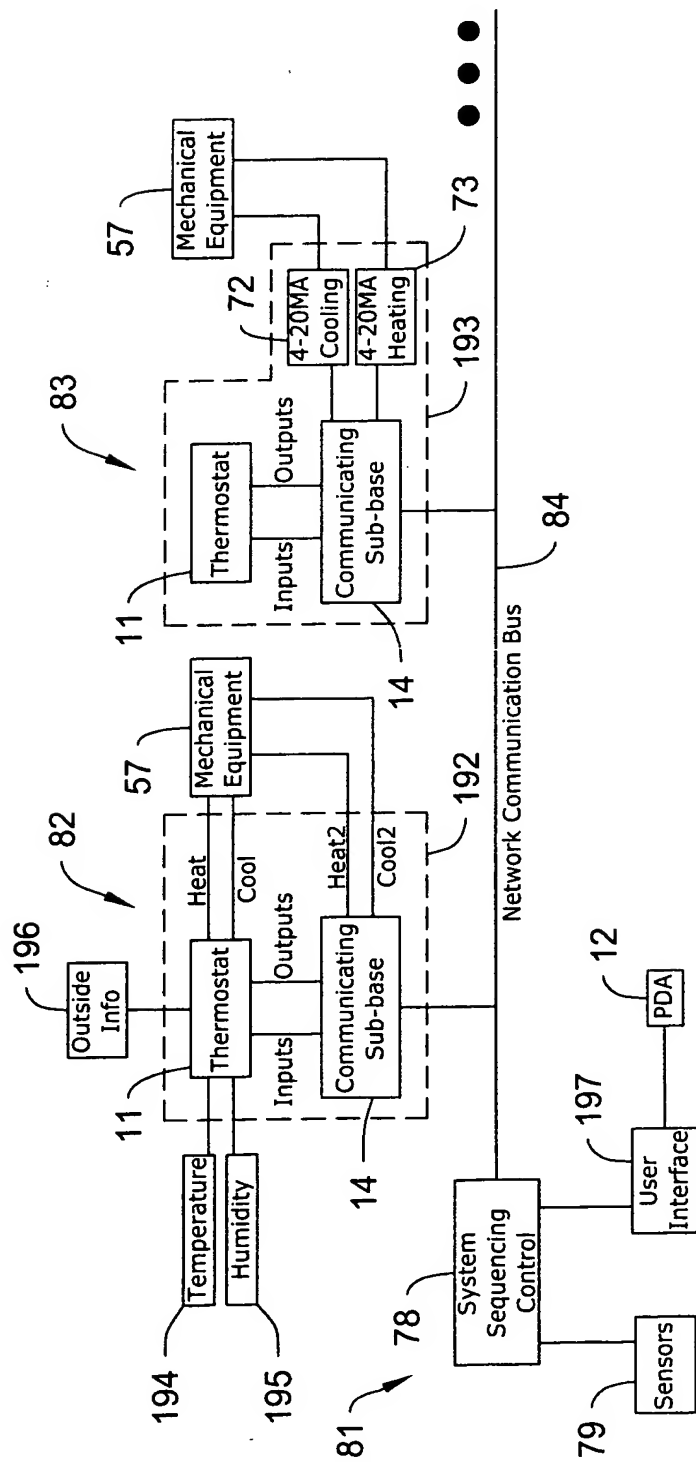


Figure 18

20/33

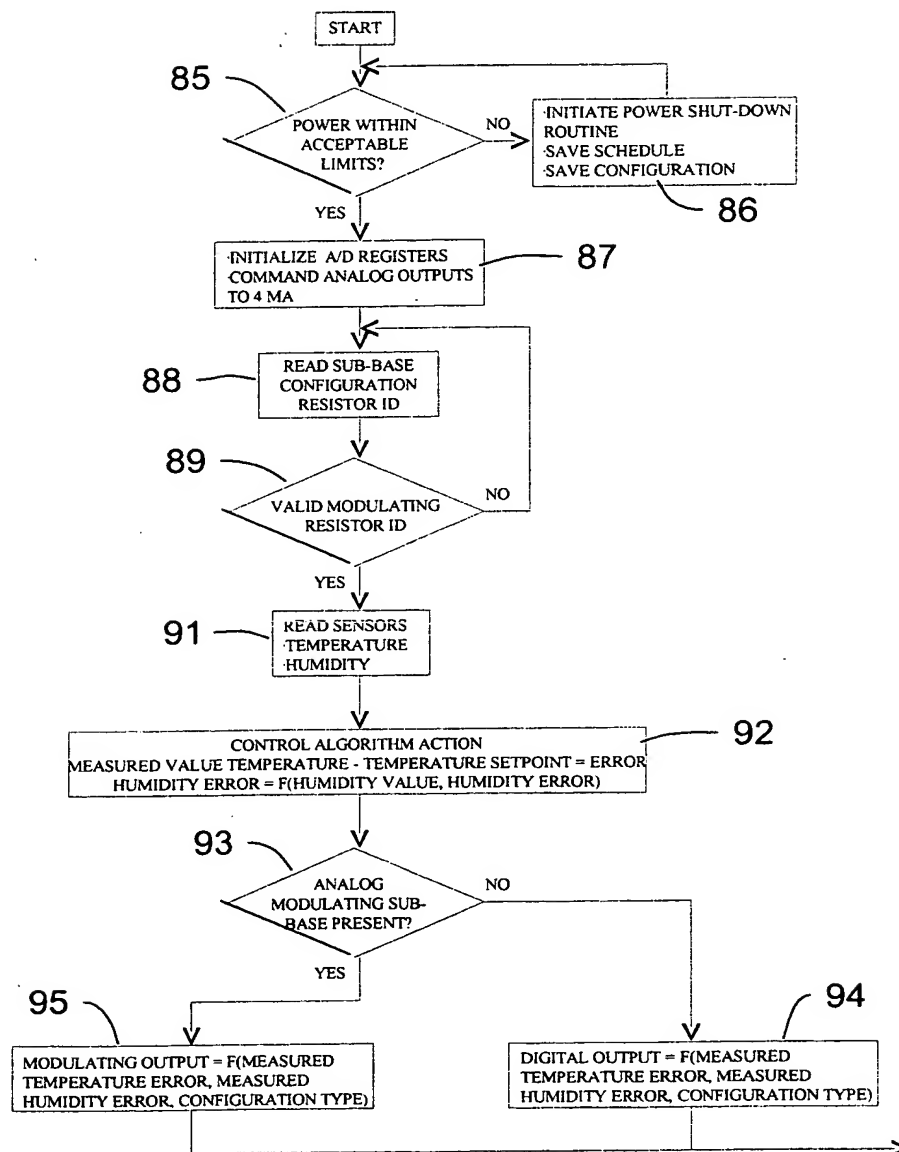


Figure 19

21/33

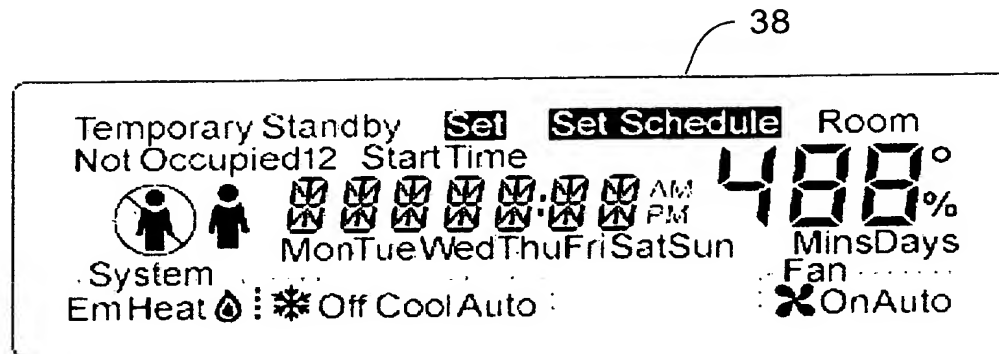


Figure 20A

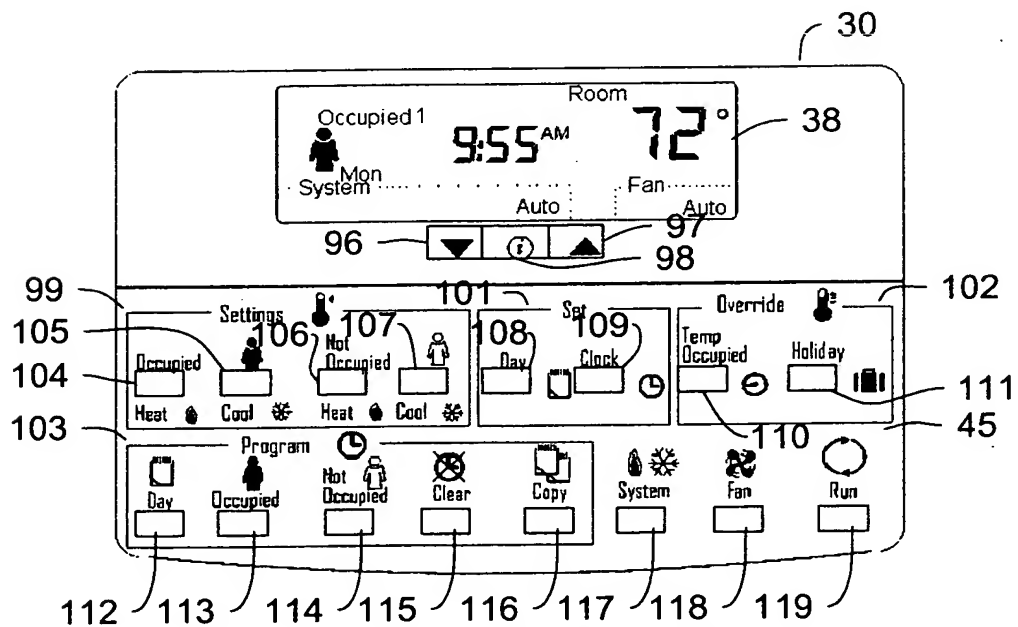


Figure 20B

22/33

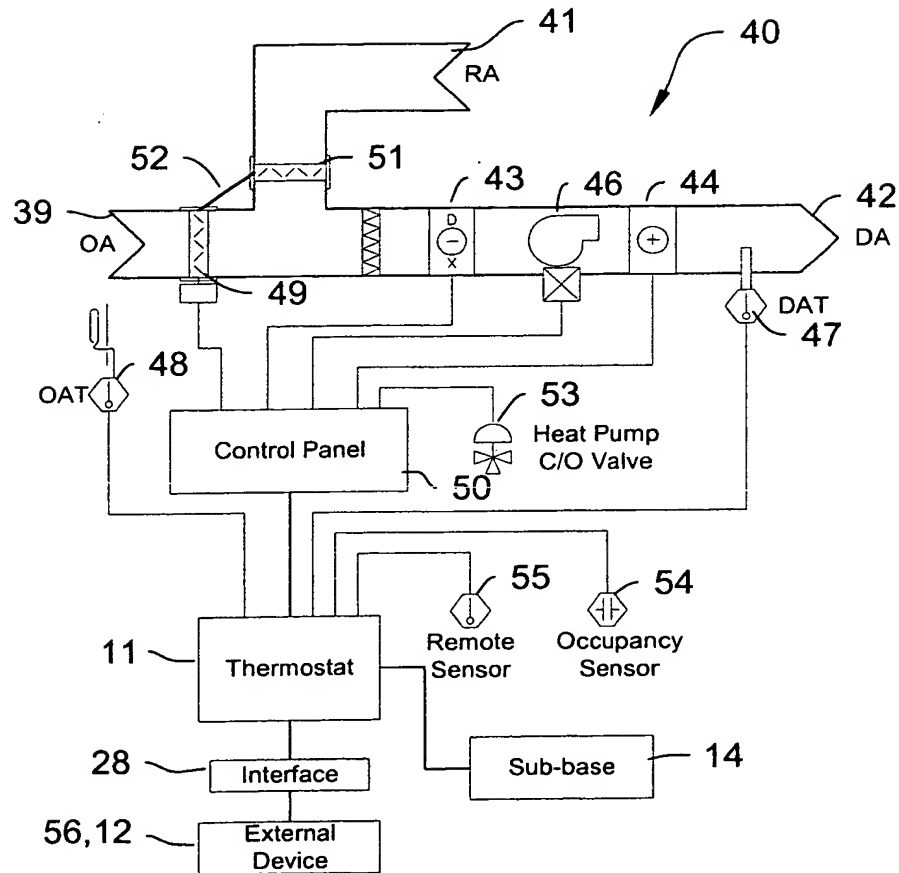


Figure 21

23/33

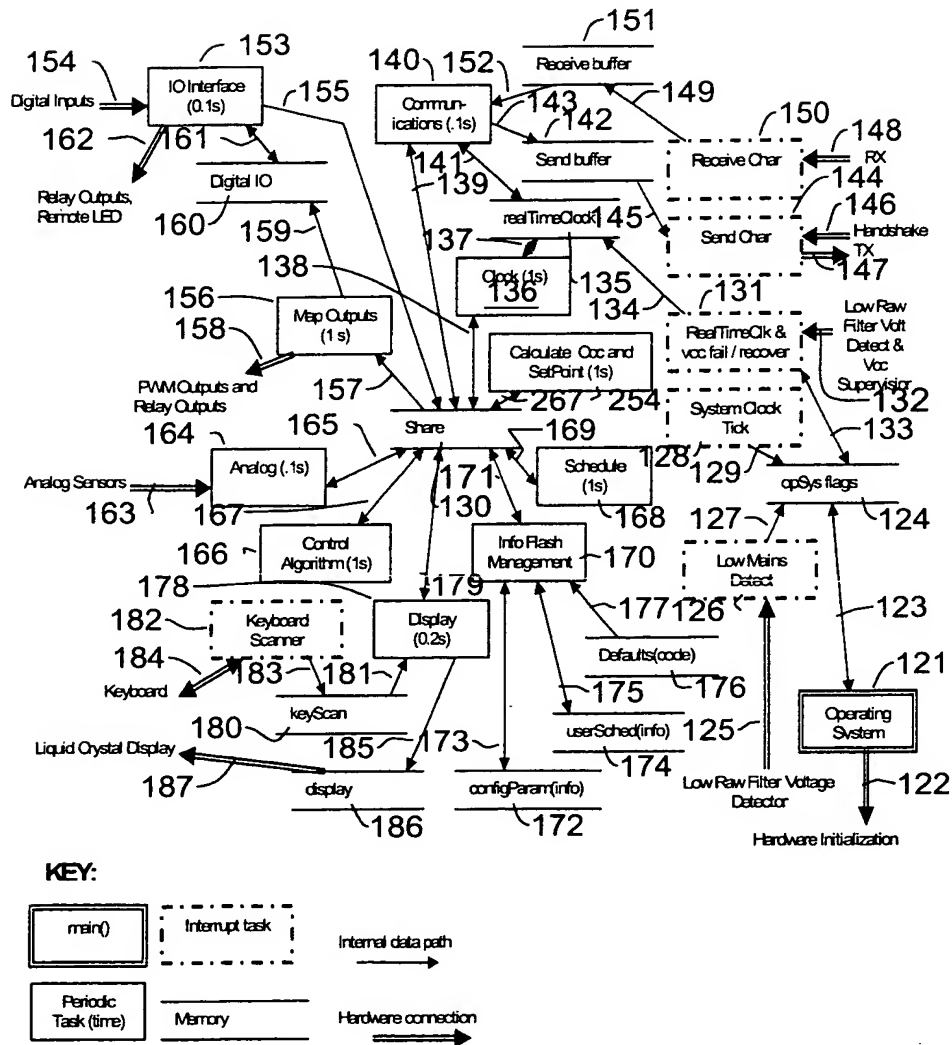


Figure 22

24/33

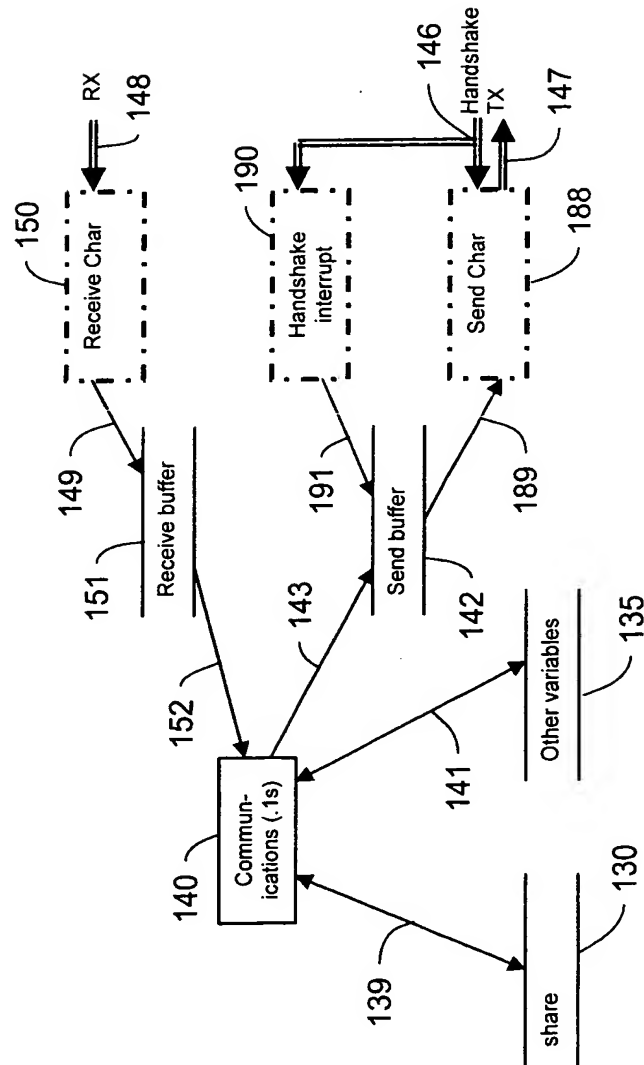


Figure 23

25/33

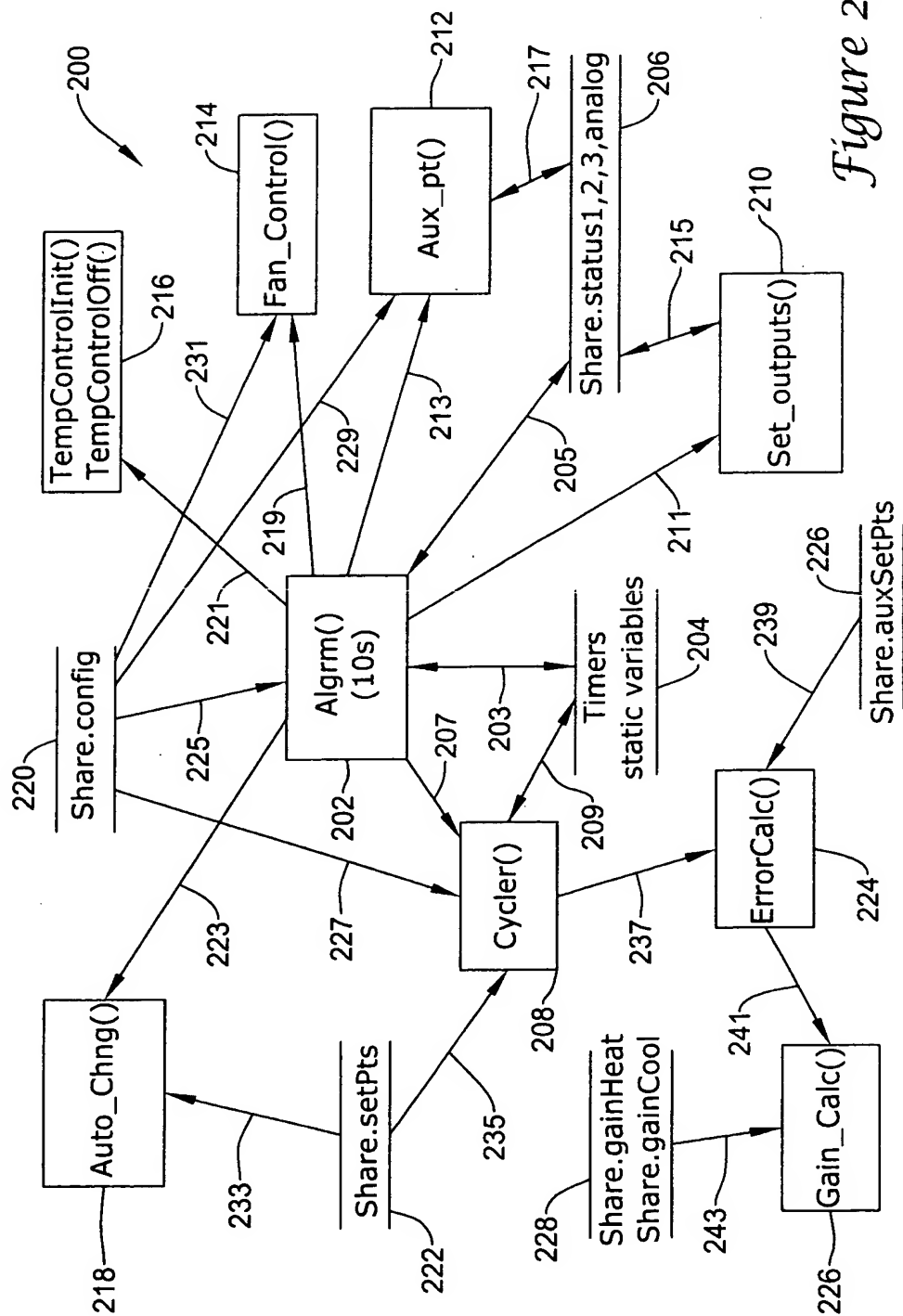


Figure 24

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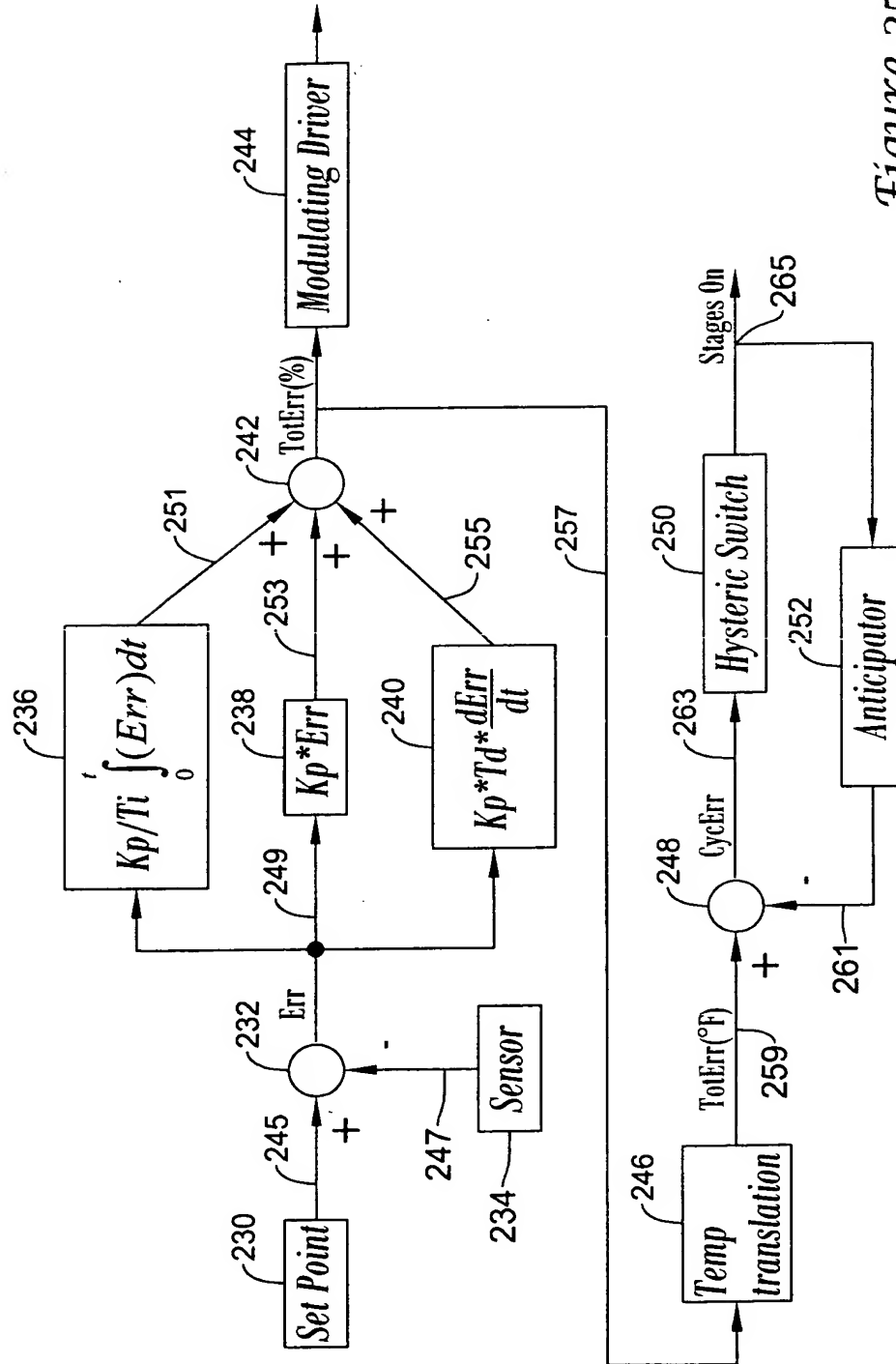


Figure 25A

27/33

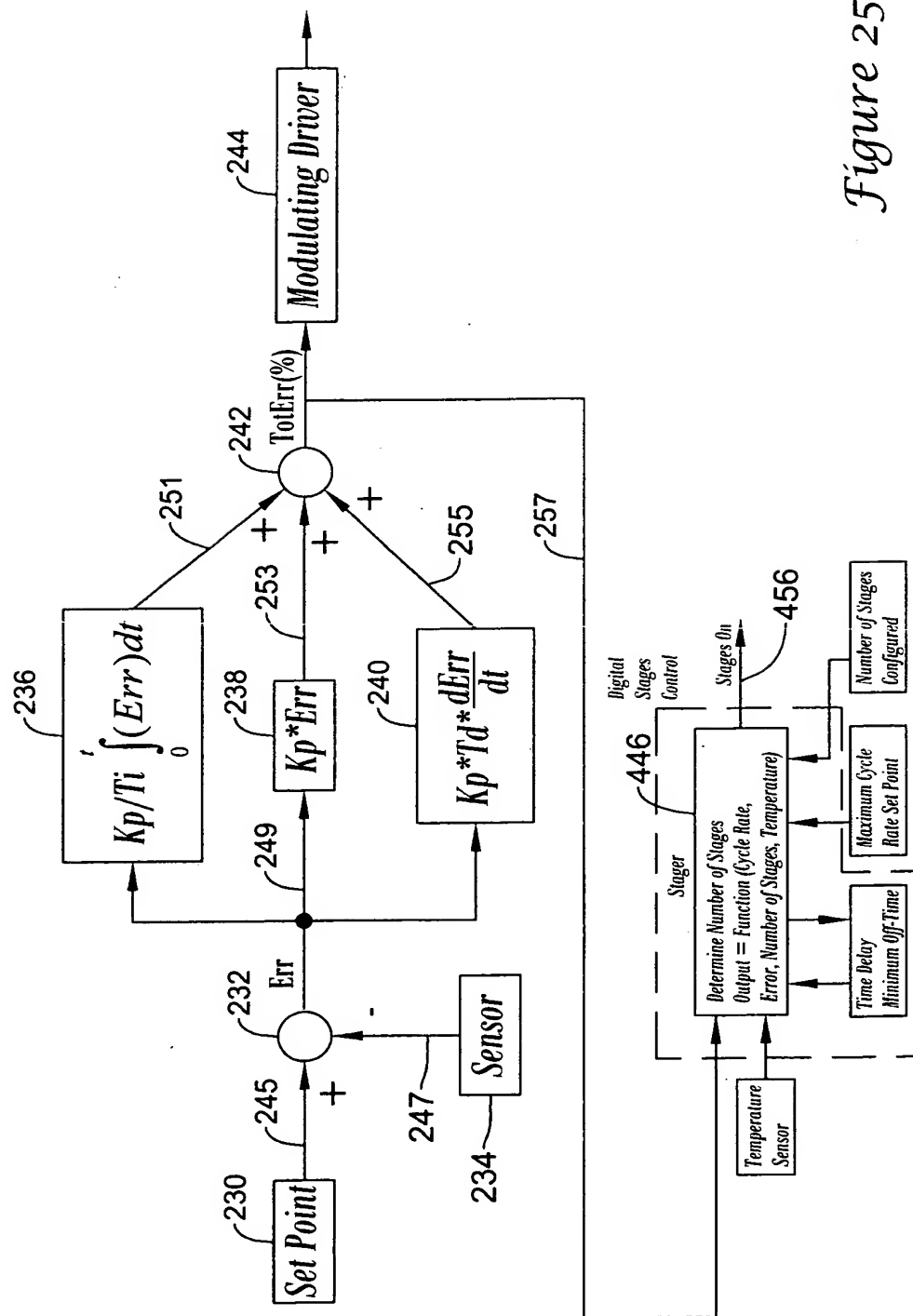


Figure 25B

28/33

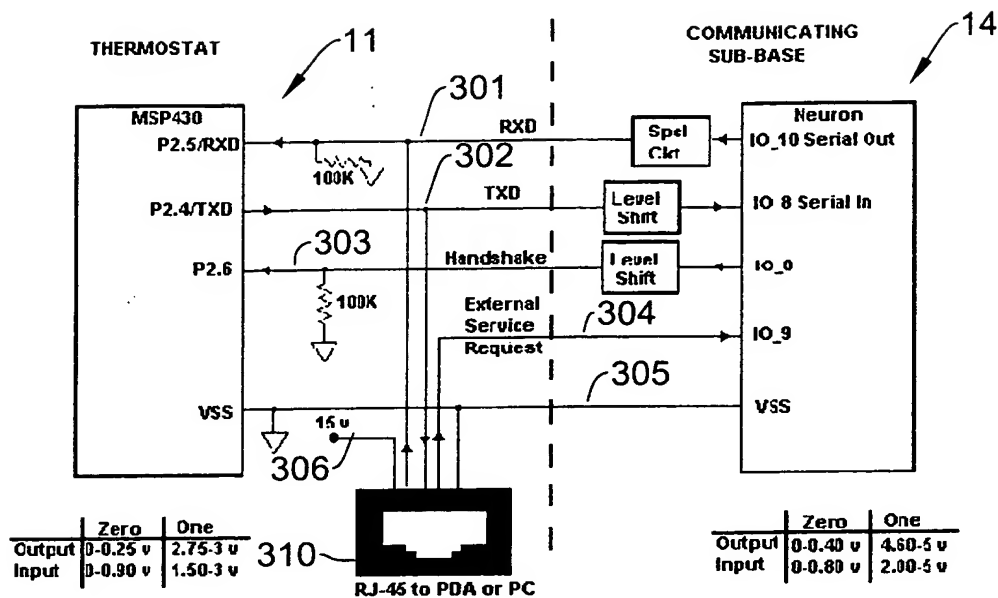


Figure 26

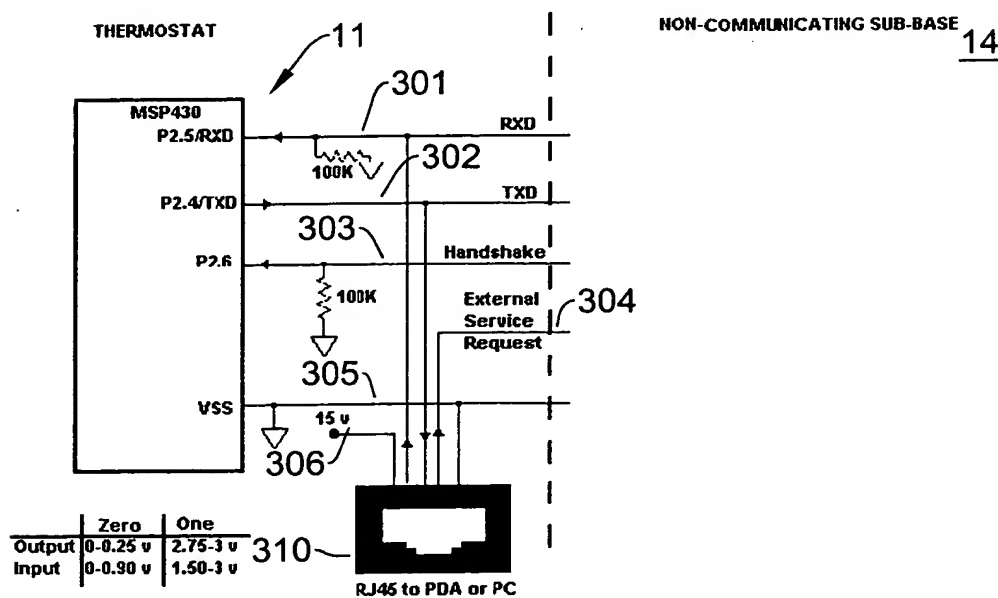


Figure 27

29/33

T7350 Configuration Tool
 Version: diag1

Override Monitor Data
 Set Clock Commission
 Temp SetPts Holidays
 Upload Config Weekly Schedule
 New Config

▼ Select Existing Config

Figure 28A

T7350 Configuration Tool
 Version: diag1

T7350 Online Diagnostics

Please connect PDA serial port to the T7350 using the serial cable & Thermostat Interface Module.

OK Cancel

Figure 28B

Commission Summary

Sensors: Failed
 Fan/Flux: UnTested
 Cooling: OK
 Heating: OK

Error Summary:
 DISCHARGE AIR SENSOR FAILURE:
 Temperature sensor is configured
 and is out of range or disconnected.

REMOTE OUTDOOR AIR SENSOR

Back Next Close

Figure 28C

Sensors

Valid

Room Temp: 73 F
 Remote SetPt: -5
 Remote Bypass: OFF
 Room Rel Humidity: 55 %
 Occupancy Sensor: OFF
 Discharge Air Temp: Failed
 Outdoor Air Temp: 60 F

Back Next Update Test

Figure 29A

Sensors

Valid

Room Temp: 73 F
 Remote SetPt: -5
 Remote Bypass: OFF

Testing Room Temp

Room Temp: 73 F
 Please confirm Room Temperature.

Pass Fail

Figure 29B

Sensors

Valid

Room Temp: 73 F
 Remote SetPt: -5

Testing Remote SetPt

Remote SetPt: -1
 Please rotate remote setpoint to the full - position (CCW) and tap OK.

OK

Figure 29C

30/33

Sensors Valid ☒

Room Temp: 73 F

Testing Remote SetPt

? Full - setting validated.
 Remote SetPt: -5
 Please rotate remote
 setpoint to the full +
 position (CW) and tap
 OK.

OK

Figure 29D

Sensors Valid ☒

Room Temp: 73 F

Remote SetPt: -5

Remote Bypass: OFF

Room Rel Humidity: 55 %

Occupancy Sensor: OFF

Discharge Air Temp: Failed

Outdoor Air Temp: 60 F

Back Next Update Test

Figure 29F

Cooling Equipment

Manual Mode: OFF

Fan Status: OFF

Clg Stage 1 - Y1: OFF

Clg Stage 2 - Y2: OFF

Clg Stage 3 - Y3: OFF

Valid ☐

Back Next Update Test

Figure 31A

Sensors Valid ☒

Room Temp: 73 F

Remote SetPt: -5

Testing Remote SetPt

i Full + setting validated.
 Remote SetPt: +5
 Setpoint test sequence
 completed.

OK

Figure 29E

Fan/Auxiliary Equipment Valid ☐

Manual Mode: OFF

Fan - G: OFF

Time Off Day - A1: OFF

Back Next Update Test

Figure 30

Cooling Equipment

Manual Mode: OFF

Fan Status: OFF

Clg Stage 1 - Y1: OFF

Valid ☐

Testing Cooling Operation

? Fan Status: OFF

Please confirm it is safe
 to start the Fan.

Yes No

Figure 31B

31/33

Cooling Equipment

ManualMode: OFF
Fan Status: OFF
Clg Stage1 - Y1 : OFF
Clg Stage2 - Y2 : OFF
Valid ☐

Testing Cooling Stages

Validated Stage 1
Cooling Operation
Progress: |||||.....

Cancel

Figure 31G

Cooling Equipment

ManualMode: OFF
Fan Status: OFF
Clg Stage1 - Y1 : OFF
Clg Stage2 - Y2 : OFF
Clg Stage3 - Y3 : OFF
Valid ☒

Back Next Update Test

Figure 31H

Cooling Equipment

ManualMode: OFF
Fan Status: OFF
Clg Stage1 - Y1 : OFF
Clg Stage2 - Y2 : OFF
Valid ☐

Testing Cooling Stages

of Stages: 1
DischargeAirT: 78F
CoilDeltaT: 0F
Progress: ||.....

Cancel

Figure 31E

Cooling Equipment

ManualMode: OFF
Fan Status: OFF
Clg Stage1 - Y1 : OFF
Clg Stage2 - Y2 : OFF
Valid ☐

Testing Cooling Stages

of Stages: 1
DischargeAirT: 73F
CoilDeltaT: 5F
Progress: ||||.....

Cancel

Figure 31F

Cooling Equipment

ManualMode: OFF
Fan Status: OFF
Clg Stage1 - Y1 : OFF
Valid ☐

Testing Cooling Operation

? Fan Status: ON
Please confirm Fan operation.

Pass Fail

Figure 31C

Cooling Equipment

ManualMode: OFF
Fan Status: OFF
Valid ☐

Testing Cooling Stages

? Fan Status: ON
of Stages: 0
Please confirm it is safe to start Cooling Stages.

Yes No

Figure 31D

32/33

Heating Equipment

Manual Mode: OFF
 Fan Status: OFF
 Htg Stage 1 - W1: OFF

Valid ☐

Back Next Update Test

Figure 32A

Heating Equipment

Manual Mode: OFF
 Fan Status: OFF
 Htg Stage 1: OFF

Valid ☒

? Testing Heating Stages

? Htg Stage 1: OFF

Please confirm it is safe to activate Heating Stage contact.

Yes No

Back Next Update Test

Figure 32C

Heating Equipment

Manual Mode: OFF
 Fan Status: OFF
 Htg Stage 1: ON

Valid ☒

? Testing Heating Operation

? Fan Status: OFF

Please confirm Fan air flow is required for stage 1 heating.

Yes No

Back Next Update Test

Figure 32B

Heating Equipment

Manual Mode: OFF
 Fan Status: OFF
 Htg Stage 1: ON

Valid ☒

? Testing Heating Stages

? Htg Stage 1: ON

Please confirm Heating Stage 1 operation. For example, room baseboard heat is activated.

Pass Fail

Back Next Update Test

Figure 32D

Heating Equipment

Manual Mode: OFF
 Fan Status: OFF
 Htg Stage 1 - W1: OFF

Valid ☒

Back Next Update Test

Figure 32E

33/33

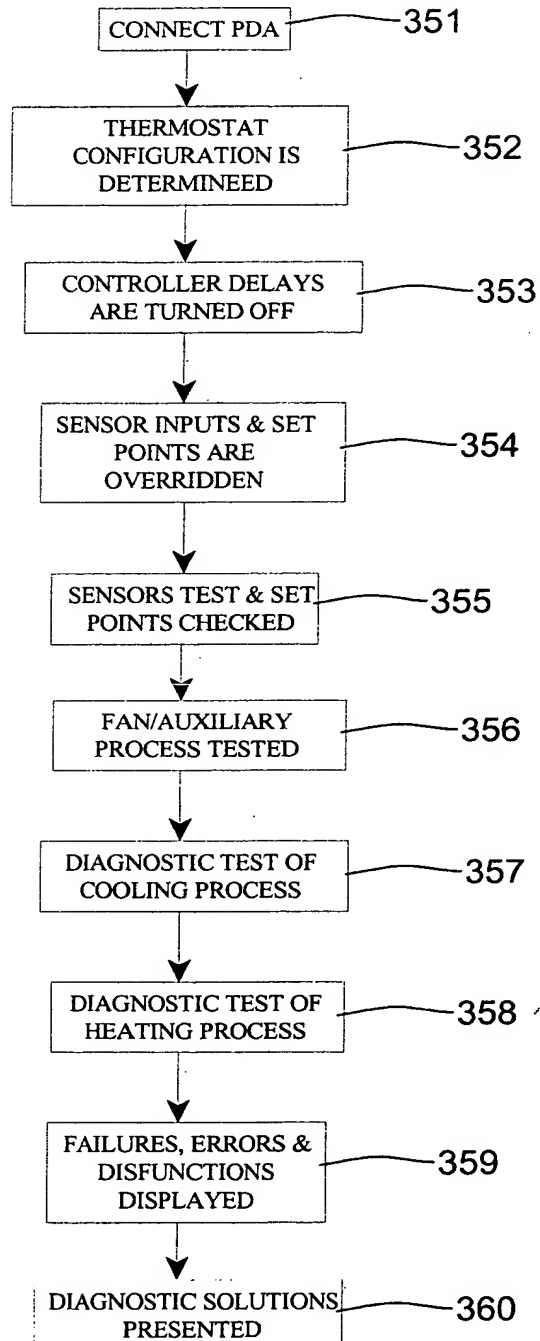


Figure 33